Raul MuÃ±oz

List of Publications by Year
in descending order

283	14,351	17440 63	28297 105
papers	citations	h-index	g-index

292	292	292	8909
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Algalâ€“bacterial processes for the treatment of hazardous contaminants: A review. Water Research, 2006, 40, 2799-2815.	11.3	1,210
2	A review on the state-of-the-art of physical/chemical and biological technologies for biogas upgrading. Reviews in Environmental Science and Biotechnology, 2015, 14, 727-759.	8.1	468
3	Long-term operation of high rate algal ponds for the bioremediation of piggery wastewaters at high loading rates. Bioresource Technology, 2009, 100, 4332-4339.	9.6	280
4	Biochemical methane potential of microalgae: Influence of substrate to inoculum ratio, biomass concentration and pretreatment. Bioresource Technology, 2012, 123, 488-494.	9.6	249
5	Biological treatment of indoor air for VOC removal: Potential and challenges. Biotechnology Advances, 2008, 26, 398-410.	11.7	244
6	Advanced nutrient removal from surface water by a consortium of attached microalgae and bacteria: A review. Bioresource Technology, 2017, 241, 1127-1137.	9.6	234
7	Influence of pH and CO2 source on the performance of microalgae-based secondary domestic wastewater treatment in outdoors pilot raceways. Chemical Engineering Journal, 2015, 265, 239-248.	12.7	233
8	Carbon and nutrient removal from centrates and domestic wastewater using algalâ€“bacterial biofilm bioreactors. Bioresource Technology, 2013, 139, 50-58.	9.6	225
9	A stateâ€“ofâ€“the-art review on indoor air pollution and strategies for indoor air pollution control. Chemosphere, 2021, 262, 128376.	8.2	225
10	Tetracycline removal during wastewater treatment in high-rate algal ponds. Journal of Hazardous Materials, 2012, 229-230, 446-449.	12.4	205
11	A comparative evaluation of microalgae for the degradation of piggery wastewater under photosynthetic oxygenation. Bioresource Technology, 2010, 101, 5150-5158.	9.6	185
12	Synergistic relationships in algalâ€“bacterial microcosms for the treatment of aromatic pollutants. Bioresource Technology, 2003, 86, 293-300.	9.6	171
13	Odor Assessment and Management in Wastewater Treatment Plants: A Review. Critical Reviews in Environmental Science and Technology, 2011, 41, 915-950.	12.8	162
14	Microalgal-Biotechnology As a Platform for an Integral Biogas Upgrading and Nutrient Removal from Anaerobic Effluents. Environmental Science & Technology, 2014, 48, 573-581.	10.0	159
15	A Comparative Analysis of Odour Treatment Technologies in Wastewater Treatment Plants. Environmental Science & Technology, 2011, 45, 1100-1106.	10.0	154
16	Monitoring techniques for odour abatement assessment. Water Research, 2010, 44, 5129-5149.	11.3	153
17	Two-phase partitioning bioreactors for treatment of volatile organic compounds. Biotechnology Advances, 2007, 25, 410-422.	11.7	150
18	Photodegradation and sorption govern tetracycline removal during wastewater treatment in algal ponds. Bioresource Technology, 2017, 232, 35-43.	9.6	149

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19	Sequential removal of heavy metals ions and organic pollutants using an algal-bacterial consortium. Chemosphere, 2006, 63, 903-911.	8.2	143
20	Coagulation/flocculation-based removal of algalâ€“bacterial biomass from piggery wastewater treatment. Bioresource Technology, 2011, 102, 923-927.	9.6	142
21	Influence of Biogas Flow Rate on Biomass Composition During the Optimization of Biogas Upgrading in Microalgal-Bacterial Processes. Environmental Science & Technology, 2015, 49, 3228-3236.	10.0	142
22	Recent advances in two-phase partitioning bioreactors for the treatment of volatile organic compounds. Biotechnology Advances, 2012, 30, 1707-1720.	11.7	139
23	Phenanthrene biodegradation by an algal-bacterial consortium in two-phase partitioning bioreactors. Applied Microbiology and Biotechnology, 2003, 61, 261-267.	3.6	131
24	Simultaneous nutrients and carbon removal during pretreated swine slurry degradation in a tubular biofilm photobioreactor. Applied Microbiology and Biotechnology, 2009, 82, 187-194.	3.6	129
25	Comparative uptake study of arsenic, boron, copper, manganese and zinc from water by different green microalgae. Bioresource Technology, 2018, 263, 49-57.	9.6	119
26	Microalgae-based processes for the biodegradation of pretreated piggery wastewaters. Applied Microbiology and Biotechnology, 2008, 80, 891-898.	3.6	113
27	A sensitivity analysis of process design parameters, commodity prices and robustness on the economics of odour abatement technologies. Biotechnology Advances, 2012, 30, 1354-1363.	11.7	108
28	Biotechnologies for greenhouse gases (CH4, N2O, and CO2) abatement: state of the art and challenges. Applied Microbiology and Biotechnology, 2013, 97, 2277-2303.	3.6	108
29	Efficient nutrient removal from swine manure in a tubular biofilm photo-bioreactor using algae-bacteria consortia. Water Science and Technology, 2008, 58, 95-102.	2.5	107
30	Microalgae-based agro-industrial wastewater treatment: a preliminary screening of biodegradability. Journal of Applied Phycology, 2014, 26, 2335-2345.	2.8	106
31	Combined carbon and nitrogen removal from acetonitrile using algalâ€“bacterial bioreactors. Applied Microbiology and Biotechnology, 2005, 67, 699-707.	3.6	105
32	Gaseous Hexane Biodegradation byFusarium solaniin Two Liquid Phase Packed-Bed and Stirred-Tank Bioreactors. Environmental Science & Technology, 2006, 40, 2390-2395.	10.0	103
33	Mechanistic Modeling of Broth Temperature in Outdoor Photobioreactors. Environmental Science & Technology, 2010, 44, 2197-2203.	10.0	101
34	Influence of flue gas sparging on the performance of high rate algae ponds treating agro-industrial wastewaters. Journal of Hazardous Materials, 2010, 179, 1049-1054.	12.4	98
35	Biochemical methane potential of microalgae biomass after lipid extraction. Chemical Engineering Journal, 2014, 243, 405-410.	12.7	97
36	Biofilm photobioreactors for the treatment of industrial wastewaters. Journal of Hazardous Materials, 2009, 161, 29-34.	12.4	92

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37	Bio-hythane production from microalgae biomass: Key challenges and potential opportunities for algal bio-refineries. Bioresource Technology, 2017, 241, 525-536.	9.6	91
38	Evaluation of wastewater treatment in a novel anoxicâ€“aerobic algalâ€“bacterial photobioreactor with biomass recycling through carbon and nitrogen mass balances. Bioresource Technology, 2015, 191, 173-186.	9.6	90
39	The effects of various LED (light emitting diode) lighting strategies on simultaneous biogas upgrading and biogas slurry nutrient reduction by using of microalgae Chlorella sp.. Energy, 2016, 106, 554-561.	8.8	88
40	Influence of light intensity on bacterial nitrifying activity in algal-bacterial photobioreactors and its implications for microalgae-based wastewater treatment. International Biodeterioration and Biodegradation, 2016, 114, 116-121.	3.9	88
41	Evaluation of the dynamics of microalgae population structure and process performance during piggery wastewater treatment in algal-bacterial photobioreactors. Bioresource Technology, 2018, 248, 120-126.	9.6	88
42	Biogas-based polyhydroxyalkanoates production by Methylocystis hirsuta: A step further in anaerobic digestion biorefineries. Chemical Engineering Journal, 2018, 333, 529-536.	12.7	87
43	Two-phase partitioning bioreactors in environmental biotechnology. Applied Microbiology and Biotechnology, 2009, 84, 829-846.	3.6	86
44	Odor abatement in biotrickling filters: Effect of the EBRT on methyl mercaptan and hydrophobic VOCs removal. Bioresource Technology, 2012, 109, 38-45.	9.6	86
45	Enclosed tubular and open algalâ€“bacterial biofilm photobioreactors for carbon and nutrient removal from domestic wastewater. Ecological Engineering, 2014, 67, 156-164.	3.6	86
46	Comparative assessment of a biofilter, a biotrickling filter and a hollow fiber membrane bioreactor for odor treatment in wastewater treatment plants. Water Research, 2014, 49, 339-350.	11.3	84
47	Simultaneous biogas upgrading and centrate treatment in an outdoors pilot scale high rate algal pond. Bioresource Technology, 2017, 232, 133-141.	9.6	84
48	Photosynthetic biogas upgrading to bio-methane: Boosting nutrient recovery via biomass productivity control. Algal Research, 2016, 17, 46-52.	4.6	83
49	Enhanced carbon, nitrogen and phosphorus removal from domestic wastewater in a novel anoxic-aerobic photobioreactor coupled with biogas upgrading. Chemical Engineering Journal, 2017, 313, 424-434.	12.7	83
50	Enhanced hexane biodegradation in a two phase partitioning bioreactor: Overcoming pollutant transport limitations. Process Biochemistry, 2006, 41, 1614-1619.	3.7	82
51	Technologies for the bioconversion of methane into more valuable products. Current Opinion in Biotechnology, 2018, 50, 128-135.	6.6	81
52	A comparative study of fungal and bacterial biofiltration treating a VOC mixture. Journal of Hazardous Materials, 2013, 250-251, 190-197.	12.4	78
53	Minimization of biomethane oxygen concentration during biogas upgrading in algalâ€“bacterial photobioreactors. Algal Research, 2015, 12, 221-229.	4.6	76
54	Photosynthetically oxygenated salicylate biodegradation in a continuous stirred tank photobioreactor. Biotechnology and Bioengineering, 2004, 87, 797-803.	3.3	75

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55	H2S and VOCs abatement robustness in biofilters and air diffusion bioreactors: A comparative study. Water Research, 2010, 44, 3905-3914.	11.3	75
56	Comparative evaluation of piggery wastewater treatment in algal-bacterial photobioreactors under indoor and outdoor conditions. Bioresource Technology, 2017, 245, 483-490.	9.6	75
57	Evaluation of mass and energy balances in the integrated microalgae growth-anaerobic digestion process. Chemical Engineering Journal, 2013, 221, 238-246.	12.7	72
58	A comparative analysis of biogas upgrading technologies: Photosynthetic vs physical/chemical processes. Algal Research, 2017, 25, 237-243.	4.6	71
59	A systematic comparison of the potential of microalgae-bacteria and purple phototrophic bacteria consortia for the treatment of piggery wastewater. Bioresource Technology, 2019, 276, 18-27.	9.6	71
60	Title is missing!. Biotechnology Letters, 2002, 24, 531-538.	2.2	69
61	Methane abatement in a gas-recycling biotrickling filter: Evaluating innovative operational strategies to overcome mass transfer limitations. Chemical Engineering Journal, 2014, 253, 385-393.	12.7	69
62	Selection of odour removal technologies in wastewater treatment plants: A guideline based on Life Cycle Assessment. Journal of Environmental Management, 2015, 149, 77-84.	7.8	65
63	Removal of contaminants of emerging concern from urban wastewater in novel algal-bacterial photobioreactors. Science of the Total Environment, 2019, 662, 32-40.	8.0	64
64	Mechanistic Model for the Reclamation of Industrial Wastewaters Using Algalâ^'Bacterial Photobioreactors. Environmental Science & Technology, 2009, 43, 3200-3207.	10.0	63
65	Assessing carbon and nitrogen removal in a novel anoxicâ€“aerobic cyanobacterialâ€“bacterial photobioreactor configuration with enhanced biomass sedimentation. Water Research, 2014, 61, 77-85.	11.3	63
66	Influence of the gas-liquid flow configuration in the absorption column on photosynthetic biogas upgrading in algal-bacterial photobioreactors. Bioresource Technology, 2017, 225, 336-342.	9.6	63
67	Technology validation of photosynthetic biogas upgrading in a semi-industrial scale algal-bacterial photobioreactor. Bioresource Technology, 2019, 279, 43-49.	9.6	63
68	A comparative study of solid and liquid nonâ€aqueous phases for the biodegradation of hexane in twoâ€phase partitioning bioreactors. Biotechnology and Bioengineering, 2010, 106, 731-740.	3.3	62
69	Biogas upgrading from vinasse digesters: a comparison between an anoxic biotrickling filter and an algalâ€bacterial photobioreactor. Journal of Chemical Technology and Biotechnology, 2016, 91, 2488-2495.	3.2	62
70	Anoxic biodegradation of BTEX in a biotrickling filter. Science of the Total Environment, 2017, 587-588, 457-465.	8.0	61
71	A study of photosynthetic biogas upgrading based on a high rate algal pond under alkaline conditions: Influence of the illumination regime. Science of the Total Environment, 2017, 592, 419-425.	8.0	61
72	Seasonal variation of biogas upgrading coupled with digestate treatment in an outdoors pilot scale algal-bacterial photobioreactor. Bioresource Technology, 2018, 263, 58-66.	9.6	61

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73	Simultaneous methane abatement and PHB production by Methylocystis hirsuta in a novel gas-recycling bubble column bioreactor. Chemical Engineering Journal, 2018, 334, 691-697.	12.7	61
74	Nitrous oxide emissions from high rate algal ponds treating domestic wastewater. Bioresource Technology, 2015, 177, 110-117.	9.6	60
75	A comparative assessment of biofiltration and activated sludge diffusion for odour abatement. Journal of Hazardous Materials, 2011, 190, 622-630.	12.4	58
76	A review on the factors influencing biohydrogen production from lactate: The key to unlocking enhanced dark fermentative processes. Bioresource Technology, 2021, 324, 124595.	9.6	57
77	New insights on toluene biodegradation by Pseudomonas putida F1: influence of pollutant concentration and excreted metabolites. Applied Microbiology and Biotechnology, 2007, 74, 857-866.	3.6	56
78	A systematic selection of the non-aqueous phase in a bacterial two liquid phase bioreactor treating Î±-pinene. Applied Microbiology and Biotechnology, 2008, 79, 33-41.	3.6	55
79	Inspired by nature: Microbial production, degradation and valorization of biodegradable bioplastics for life-cycle-engineered products. Biotechnology Advances, 2021, 53, 107772.	11.7	55
80	Outdoor cultivation of temperatureâ€tolerant Chlorella sorokiniana in a column photobioreactor under low powerâ€input. Biotechnology and Bioengineering, 2013, 110, 118-126.	3.3	54
81	Advances in technological control of greenhouse gas emissions from wastewater in the context of circular economy. Science of the Total Environment, 2021, 792, 148479.	8.0	54
82	Toluene mass transfer characterization in a biotrickling filter. Biochemical Engineering Journal, 2012, 60, 44-49.	3.6	53
83	Biological anoxic treatment of O2-free VOC emissions from the petrochemical industry: A proof of concept study. Journal of Hazardous Materials, 2013, 260, 442-450.	12.4	50
84	A case study of a pilot high rate algal pond for the treatment of fish farm and domestic wastewaters. Journal of Chemical Technology and Biotechnology, 2015, 90, 1094-1101.	3.2	50
85	Effect of pretreatments on biogas production from microalgae biomass grown in pig manure treatment plants. Bioresource Technology, 2018, 257, 30-38.	9.6	50
86	Inhibitory effects of catechol accumulation on benzene biodegradation in Pseudomonas putida F1 cultures. Chemosphere, 2007, 68, 244-252.	8.2	49
87	Exploring the potential of fungi for methane abatement: Performance evaluation of a fungal-bacterial biofilter. Chemosphere, 2016, 144, 97-106.	8.2	49
88	Influence of alkalinity and temperature on photosynthetic biogas upgrading efficiency in high rate algal ponds. Algal Research, 2018, 33, 284-290.	4.6	49
89	Biodegradation of bioplastics under aerobic and anaerobic aqueous conditions: Kinetics, carbon fate and particle size effect. Bioresource Technology, 2022, 344, 126265.	9.6	49
90	A state-of-the-art review on nitrous oxide control from waste treatment and industrial sources. Biotechnology Advances, 2018, 36, 1025-1037.	11.7	48

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91	Genome scale metabolic modeling reveals the metabolic potential of three Type II methanotrophs of the genus Methylocystis. Metabolic Engineering, 2019, 54, 191-199.	7.0	48
92	A step-forward in the characterization and potential applications of solid and liquid oxygen transfer vectors. Applied Microbiology and Biotechnology, 2010, 85, 543-551.	3.6	47
93	Molecular characterization of bacterial communities in algalâ€“bacterial photobioreactors treating piggery wastewaters. Ecological Engineering, 2012, 40, 121-130.	3.6	47
94	Abatement of odorant compounds in one- and two-phase biotrickling filters under steady and transient conditions. Applied Microbiology and Biotechnology, 2013, 97, 4627-4638.	3.6	47
95	Salicylate biodegradation by various algal-bacterial consortia under photosynthetic oxygenation. Biotechnology Letters, 2003, 25, 1905-1911.	2.2	44
96	Assessing the influence of CH 4 concentration during culture enrichment on the biodegradation kinetics and population structure. Journal of Environmental Management, 2014, 146, 116-123.	7.8	44
97	Mixotrophic metabolism of Chlorella sorokiniana and algal-bacterial consortia under extended dark-light periods and nutrient starvation. Applied Microbiology and Biotechnology, 2015, 99, 2393-2404.	3.6	44
98	Methane biodegradation in a twoâ€phase partition internal loop airlift reactor with gas recirculation. Journal of Chemical Technology and Biotechnology, 2011, 86, 353-360.	3.2	43
99	Efficient removal of siloxanes and volatile organic compounds from sewage biogas by an anoxic biotrickling filter supplemented with activated carbon. Bioresource Technology, 2019, 294, 122136.	9.6	43
100	Step-feed biofiltration: A low cost alternative configuration for off-gas treatment. Water Research, 2013, 47, 4312-4321.	11.3	42
101	Feasibility study of biogas upgrading coupled with nutrient removal from anaerobic effluents using microalgae-based processes. Journal of Applied Phycology, 2016, 28, 2147-2157.	2.8	42
102	Continuous abatement of methane coupled with ectoine production by Methylomicrobium alcaliphilum 20Z in stirred tank reactors: A step further towards greenhouse gas biorefineries. Journal of Cleaner Production, 2017, 152, 134-141.	9.3	42
103	Mesophilic and thermophilic anaerobic digestion of lipid-extracted microalgae N.Âgaditana for methane production. Renewable Energy, 2017, 105, 539-546.	8.9	42
104	Assessing textile wastewater treatment in an anoxic-aerobic photobioreactor and the potential of the treated water for irrigation. Algal Research, 2018, 29, 170-178.	4.6	42
105	Modeling of VOC mass transfer in two-liquid phase stirred tank, biotrickling filter and airlift reactors. Chemical Engineering Journal, 2011, 172, 961-969.	12.7	41
106	Influence of gaseous VOC concentration on the diversity and biodegradation performance of microbial communities. Bioprocess and Biosystems Engineering, 2012, 35, 1477-1488.	3.4	41
107	Photobioreactors based on microalgae-bacteria and purple phototrophic bacteria consortia: A promising technology to reduce the load of veterinary drugs from piggery wastewater. Science of the Total Environment, 2019, 692, 259-266.	8.0	40
108	Polyhydroxyalkanoates (PHA) production from biogas in waste treatment facilities: Assessing the potential impacts on economy, environment and society. Chemosphere, 2020, 255, 126929.	8.2	40

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109	Key Role of Microbial Characteristics on the Performance of VOC Biodegradation in Two-Liquid Phase Bioreactors. Environmental Science & Technology, 2012, 46, 4059-4066.	10.0	39
110	A membrane bioreactor for the simultaneous treatment of acetone, toluene, limonene and hexane at trace level concentrations. Water Research, 2013, 47, 2199-2212.	11.3	39
111	Characterization and biofiltration of a real odorous emission from wastewater treatment plant sludge. Journal of Environmental Management, 2013, 116, 50-57.	7.8	39
112	Three-stage process for tequila vinasse valorization through sequential lactate, biohydrogen and methane production. Bioresource Technology, 2020, 307, 123160.	9.6	39
113	Determining the effect of solid and liquid vectors on the gaseous interfacial area and oxygen transfer rates in two-phase partitioning bioreactors. Journal of Hazardous Materials, 2010, 175, 1085-1089.	12.4	38
114	Hexane biodegradation in two-liquid phase bioreactors: High-performance operation based on the use of hydrophobic biomass. Biochemical Engineering Journal, 2013, 70, 9-16.	3.6	38
115	Effect of silicone oil fraction and stirring rate on methane degradation in a stirred tank reactor. Journal of Chemical Technology and Biotechnology, 2010, 85, 314-319.	3.2	37
116	Biogasâ€based denitrification in a biotrickling filter: Influence of nitrate concentration and hydrogen sulfide. Biotechnology and Bioengineering, 2017, 114, 665-673.	3.3	37
117	Multi-production of high added market value metabolites from diluted methane emissions via methanotrophic extremophiles. Bioresource Technology, 2018, 267, 401-407.	9.6	37
118	Integral (VOCs, CO2, mercaptans and H2S) photosynthetic biogas upgrading using innovative biogas and digestate supply strategies. Chemical Engineering Journal, 2018, 354, 363-369.	12.7	37
119	Influence of liquid-to-biogas ratio and alkalinity on the biogas upgrading performance in a demo scale algal-bacterial photobioreactor. Bioresource Technology, 2019, 280, 112-117.	9.6	37
120	Microalgae cultivation in wastewater. , 2017, , 67-91.		36
121	Anoxic denitrification of BTEX: Biodegradation kinetics and pollutant interactions. Journal of Environmental Management, 2018, 214, 125-136.	7.8	36
122	Biogas valorization via continuous polyhydroxybutyrate production by Methylocystis hirsuta in a bubble column bioreactor. Waste Management, 2020, 113, 395-403.	7.4	36
123	Biogas from Anaerobic Digestion as an Energy Vector: Current Upgrading Development. Energies, 2021, 14, 2742.	3.1	36
124	Influence of the seasonal variation of environmental conditions on biogas upgrading in an outdoors pilot scale high rate algal pond. Bioresource Technology, 2018, 255, 354-358.	9.6	35
125	Fundamental study on gasâ€“liquid mass transfer in a biotrickling filter packed with polyurethane foam. Journal of Chemical Technology and Biotechnology, 2014, 89, 1419-1424.	3.2	34
126	Simultaneous biological nitrous oxide abatement and wastewater treatment in a denitrifying off-gas bioscrubber. Chemical Engineering Journal, 2016, 288, 28-37.	12.7	34

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127	Ectoine bio-milking in methanotrophs: A step further towards methane-based bio-refineries into high added-value products. Chemical Engineering Journal, 2017, 328, 44-48.	12.7	34
128	Feast-famine biofilter operation for methane mitigation. Journal of Cleaner Production, 2018, 170, 108-118.	9.3	34
129	Decolorization and phytotoxicity reduction in an innovative anaerobic/aerobic photobioreactor treating textile wastewater. Chemosphere, 2019, 234, 356-364.	8.2	34
130	Saccharification of microalgae biomass obtained from wastewater treatment by enzymatic hydrolysis. Effect of alkaline-peroxide pretreatment. Bioresource Technology, 2016, 218, 265-271.	9.6	33
131	Evaluation of the influence of methane and copper concentration and methane mass transport on the community structure and biodegradation kinetics of methanotrophic cultures. Journal of Environmental Management, 2016, 171, 11-20.	7.8	33
132	Reconstruction of a Genome Scale Metabolic Model of the polyhydroxybutyrate producing methanotroph Methylocystis parvus OBBP. Microbial Cell Factories, 2019, 18, 104.	4.0	33
133	Bio-conversion of methane into high profit margin compounds: an innovative, environmentally friendly and cost-effective platform for methane abatement. World Journal of Microbiology and Biotechnology, 2019, 35, 16.	3.6	33
134	Microbial ecology of a lactate-driven dark fermentation process producing hydrogen under carbohydrate-limiting conditions. International Journal of Hydrogen Energy, 2021, 46, 11284-11296.	7.1	33
135	Elucidating the symbiotic interactions between a locally isolated microalga Chlorella vulgaris and its co-occurring bacterium Rhizobium sp. in synthetic municipal wastewater. Journal of Applied Phycology, 2019, 31, 2299-2310.	2.8	32
136	Current advances in microalgae-based treatment of high-strength wastewaters: challenges and opportunities to enhance wastewater treatment performance. Reviews in Environmental Science and Biotechnology, 2021, 20, 209-235.	8.1	32
137	A novel mathematical approach for the understanding and optimization of two-phase partitioning bioreactors devoted to air pollution control. Chemical Engineering Journal, 2015, 263, 239-248.	12.7	31
138	Comparative evaluation of a biotrickling filter and a tubular photobioreactor for the continuous abatement of toluene. Journal of Hazardous Materials, 2019, 380, 120860.	12.4	31
139	Hexane abatement and spore emission control in a fungal biofilter-photoreactor hybrid unit. Journal of Hazardous Materials, 2014, 276, 287-294.	12.4	30
140	Biocatalytic coatings for air pollution control: A proof of concept study on VOC biodegradation. Biotechnology and Bioengineering, 2015, 112, 263-271.	3.3	30
141	Comparative performance evaluation of conventional and twoâ€phase hydrophobic stirred tank reactors for methane abatement: Mass transfer and biological considerations. Biotechnology and Bioengineering, 2016, 113, 1203-1212.	3.3	30
142	Continuous photosynthetic abatement of CO2 and volatile organic compounds from exhaust gas coupled to wastewater treatment: Evaluation of tubular algal-bacterial photobioreactor. Journal of CO2 Utilization, 2017, 21, 353-359.	6.8	30
143	Multiresidue analytical method for pharmaceuticals and personal care products in sewage and sewage sludge by online direct immersion SPME on-fiber derivatization â€“ GCMS. Talanta, 2018, 186, 506-512.	5.5	30
144	Long-term photosynthetic CO2 removal from biogas and flue-gas: Exploring the potential of closed photobioreactors for high-value biomass production. Science of the Total Environment, 2018, 640-641, 1272-1278.	8.0	30

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145	Photosynthetically oxygenated acetonitrile biodegradation by an algal-bacterial microcosm: a pilot-scale study. Water Science and Technology, 2005, 51, 261-265.	2.5	29
146	Hexane biodegradation in two-liquid phase biofilters operated with hydrophobic biomass: Effect of the organic phase-packing media ratio and the irrigation rate. Chemical Engineering Journal, 2014, 237, 162-168.	12.7	29
147	Microalgae-based Wastewater Treatment. , 2015, , 439-455.		28
148	Two-liquid phase partitioning biotrickling filters for methane abatement: Exploring the potential of hydrophobic methanotrophs. Journal of Environmental Management, 2015, 151, 124-131.	7.8	28
149	Integrating nutrient removal and solid management restricts the feasibility of algal biofuel generation via wastewater treatment. Algal Research, 2017, 22, 39-46.	4.6	28
150	Assessing the potential of purple phototrophic bacteria for the simultaneous treatment of piggery wastewater and upgrading of biogas. Bioresource Technology, 2019, 281, 10-17.	9.6	28
151	Biological technologies for the treatment of atmospheric pollutants. International Journal of Environmental Analytical Chemistry, 2015, 95, 950-967.	3.3	27
152	Innovative operational strategies in photosynthetic biogas upgrading in an outdoors pilot scale algal-bacterial photobioreactor. Chemosphere, 2021, 264, 128470.	8.2	27
153	Valorization of CH 4 emissions into high-added-value products: Assessing the production of ectoine coupled with CH 4 abatement. Journal of Environmental Management, 2016, 182, 160-165.	7.8	25
154	Toluene biodegradation in an algal-bacterial airlift photobioreactor: Influence of the biomass concentration and of the presence of an organic phase. Journal of Environmental Management, 2016, 183, 585-593.	7.8	25
155	Toluene biodegradation by Pseudomonas putida F1: targeting culture stability in long-term operation. Biodegradation, 2008, 19, 197-208.	3.0	24
156	Influence of the inlet load, EBRT and mineral medium addition on spore emission by Fusarium solani in the fungal biofiltration of hydrophobic VOCs. Journal of Chemical Technology and Biotechnology, 2012, 87, 778-784.	3.2	24
157	Integral approaches to wastewater treatment plant upgrading for odor prevention: Activated Sludge and Oxidized Ammonium Recycling. Bioresource Technology, 2015, 196, 685-693.	9.6	24
158	Biogas Upgrading: Current and Emerging Technologies. , 2019, , 817-843.		24
159	Evaluation of the simultaneous biogas upgrading and treatment of centrates in a high-rate algal pond through C, N and P mass balances. Water Science and Technology, 2015, 72, 150-157.	2.5	23
160	Elucidating the key role of the fungal mycelium on the biodegradation of n-pentane as a model hydrophobic VOC. Chemosphere, 2016, 157, 89-96.	8.2	23
161	Growth performance and nutrient removal of a Chlorella vulgaris-Rhizobium sp. co-culture during mixotrophic feed-batch cultivation in synthetic wastewater. Algal Research, 2019, 44, 101690.	4.6	23
162	The effect of temperature during culture enrichment on methanotrophic polyhydroxyalkanoate production. International Biodeterioration and Biodegradation, 2019, 140, 144-151.	3.9	23

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163	Comparative assessment of two biotrickling filters for siloxanes removal: Effect of the addition of an organic phase. Chemosphere, 2020, 251, 126359.	8.2	23
164	Biodegradation of VOC mixtures of different hydrophobicities in twoâ€phase partitioning bioreactors containing tailored polymer mixtures. Journal of Chemical Technology and Biotechnology, 2011, 86, 138-144.	3.2	22
165	Continuous nitrous oxide abatement in a novel denitrifying off-gas bioscrubber. Applied Microbiology and Biotechnology, 2015, 99, 3695-3706.	3.6	22
166	Recent advances in biological systems for improving indoor air quality. Reviews in Environmental Science and Biotechnology, 2021, 20, 363-387.	8.1	22
167	Response of Pseudomonas putida F1 cultures to fluctuating toluene loads and operational failures in suspended growth bioreactors. Biodegradation, 2008, 19, 897-908.	3.0	21
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